

Date: Friday, 5/25/2007 8:36:41 AM
User: Kim Johnston

Process Sheet

POSITIVE RECALL

Customer : CU-DAR001 Dart Helicopters Services
Job Number : 32645
Estimate Number : 12882
P.O. Number :
This Issue : 5/25/2007 S.O. No. :
Prsht Rev. : NC
First Issue : / / Type : SMALL / MED FAB
Previous Run :
Written By :
Checked & Approved By :
Comment : Est Rev: A New Issue 07.05.24 EC

Drawing Name : ARM
Part Number : D3560042
Drawing Number : D3560 REV.B
Project Number : N/A
Drawing Revision : B
Material :
Due Date : 6/5/2007

EFFECTIVE 07.06.05 AUTH UP
RELEASED 07.06.06 DATE UP

Qty: 30 U/m Each

Additional Product

Job Number: 

Seq. # Machine Or Operation: Description:

1.0 M5061T6B0520X05000 6061-T6 Bar 50" x 5.0"

Comment: Qty: 1.4648 f(s)/Unit Total: 43.9425 f(s)
6061-T6 Bar 0.50" x 5.00"
Batch: 57625

2.0 BAND SAW BAND SAW

Comment: BAND SAW
Cut blanks 16.750" long

3.0 HAAS HAAS CNC VERTICAL MACHINING #1

Comment: HAAS CNC VERTICAL MACHINING #1

1- Mill as per Folio FA694 Rev: AA & Dwg D3560 Rev: B
2-C'sink 0.196" hole on manual mill as per dwg D3560
3-Deburr per dwg D3560

4.0 QC2 INSPECT PARTS AS THEY COME OFF MACHINE

Comment: INSPECT PARTS AS THEY COME OFF MACHINE

5.0 QC8 SECOND CHECK

Comment: SECOND CHECK

VI
2480

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
07.06.06	11	NO POWDER COAT. CHEM CONV. COAT ONLY. REF ATTACHED DS EMAIL				CP 07.06.06 per QSI 042	2 07.06.07

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes ☒ No ☐ DQA: 17 Date: 07/06/12
 QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Date: Friday, 5/25/2007 8:36:41 AM
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Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: ARM

Job Number: 32645

Part Number: D3560042

Job Number:



Seq. #:

Machine Or Operation:

Description:

6.0

D35521

PLATE



Comment: Qty.: 1.0000 Each(s)/Unit Total: 30.0000 Each(s)

PLATE

B 32661

PE. 07.06.06

5

7.0

LARGE FAB 1

LARGE FABRICATION RESOURCE 1



Comment: LARGE FABRICATION RESOURCE 1

1-Weld assembly as per dwg D3560

PE. 07.06.07

5

8.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

J 07.06.07

9.0

QC9

VISUAL WELDING INSPECTION



Comment: VISUAL WELDING INSPECTION

07.06.07

(5)

10.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

Chemical Conversion Coat as per QSI 005 4.1

u.m 07.06.07

(5)

11.0

POWDER COATING

POWDER COATING



Comment: POWDER COATING

NO POWDER COAT



SEE LWD CHANGE

Powder Coat White Gloss (Ref: 4.3.5.1) as per QSI 005 4.3

12.0

QC3

INSPECT POWDER COAT/CHEMICAL CONVERSION



Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION

N/A

13.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and Stock

Location: _____

GA

D

Date: Friday, 5/25/2007 8:36:41 AM
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Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: ARM

Job Number: 32645

Part Number: D3560042

Job Number:



Seq. #:

Machine Or Operation:

Description:

140

QC21

FINAL INSPECTION/W/O RELEASE



Comment: FINAL INSPECTION/W/O RELEASE

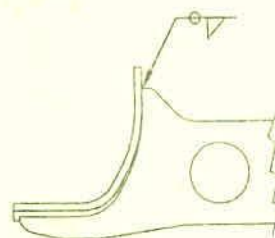
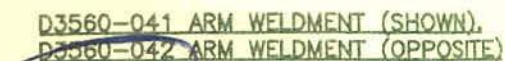
Job Completion



POSITIVE RECALL

EFFECTIVE _____ AUTH _____

RELEASED u _____ DATE 07.06.12 ⁽¹⁾



DETAIL A
(SCALE 1:1)

GENERAL NOTES

- 1) WELD PER QSI 004
2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
POWDER COAT WHITE (4.3.5.1) PER DART QSI 004 4.3
3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
4) ALL DIMENSIONS ARE IN INCHES

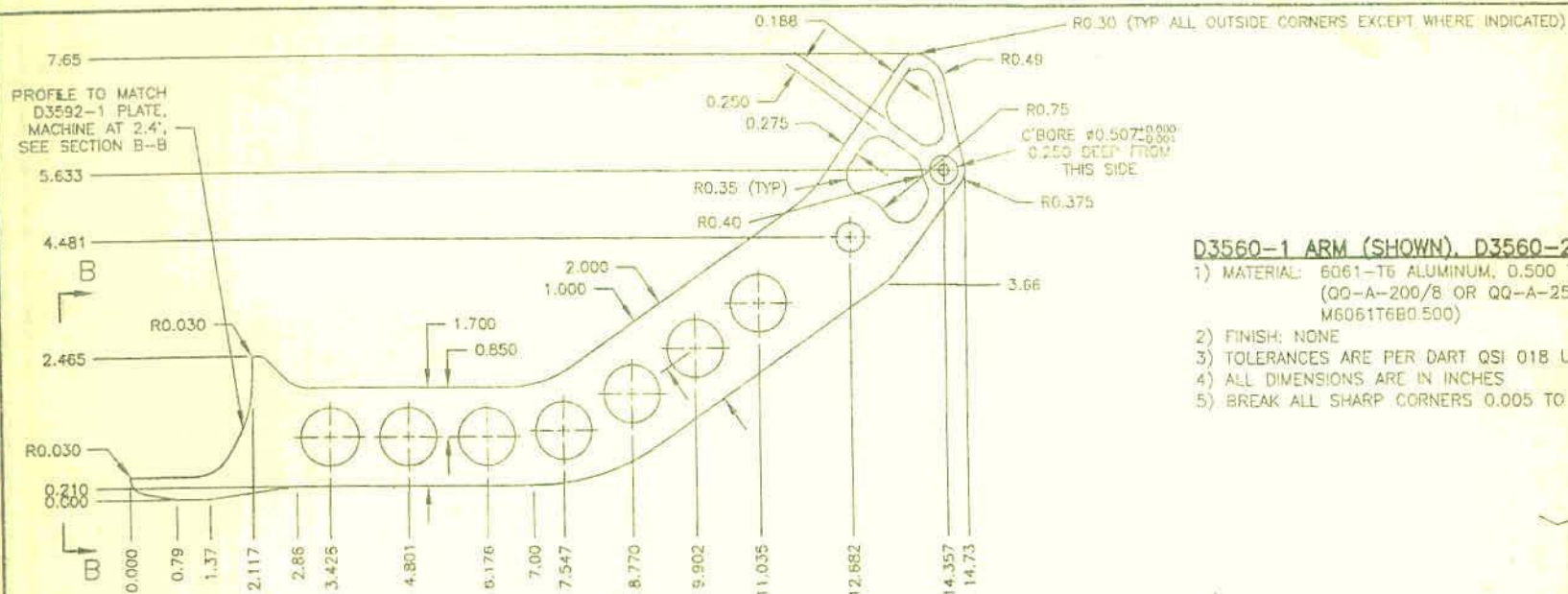
RELEASED

07.05.07

B	07.01.15	REDESIGN AS WELDMENT, ADD POCKETS	
A	06.09.25	NEW ISSUE	
DESIGN	DRAWN BY		DART AEROSPACE LTD. WINDSOR, ONTARIO, CANADA
CHECKED	APPROVED		
DATE	07.01.15	DRAWING NO. D3560	REV. 8 SHEET 1 OF 3
		TITLE ARM WELDMENT	SCALE

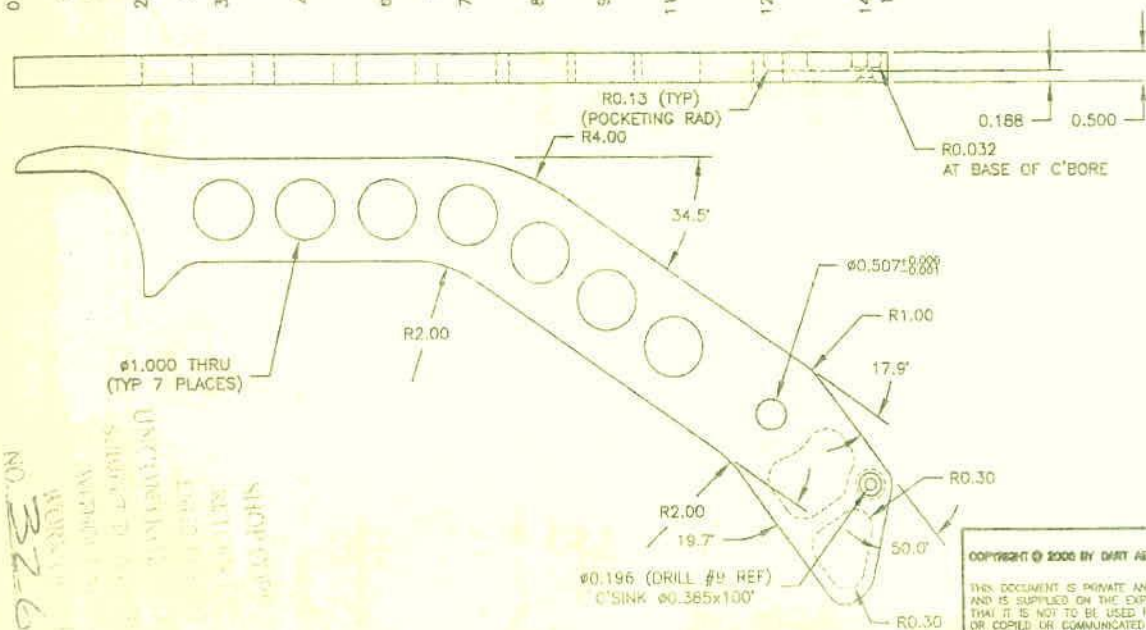
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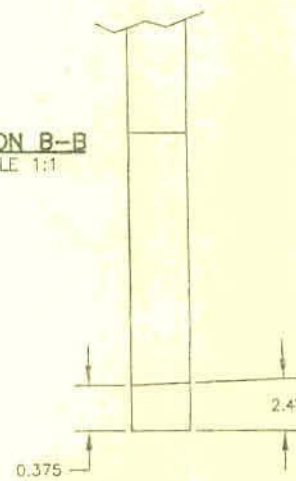


D3560-1 ARM (SHOWN), D3560-2 ARM (OPPOSITE)

- 1) MATERIAL: 6061-T6 ALUMINUM, 0.500 THICK
(Q0-A-200/8 OR Q0-A-250/11, REF DART SPEC.
M6061T6B0.500)
- 2) FINISH: NONE
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP CORNERS 0.005 TO 0.015



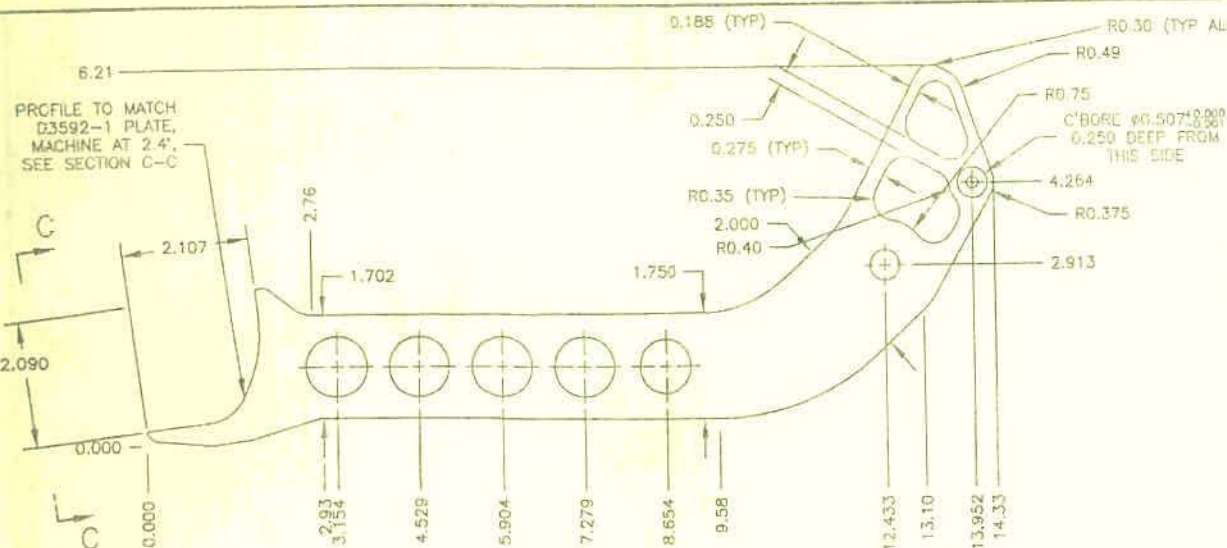
SECTION B-B SCALE 1:1



RELEASED

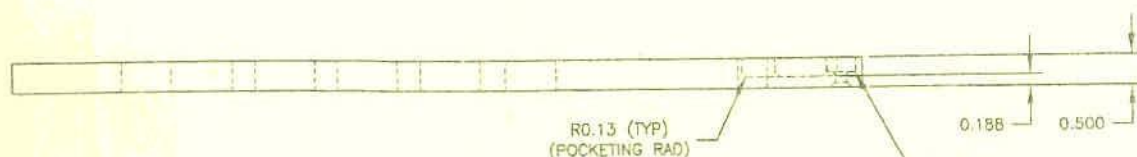
07.05.07

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		DATE	07.01.15			D3560	SHEET 2 OF 3
						ARM WELDMENT	SCALE 1:2

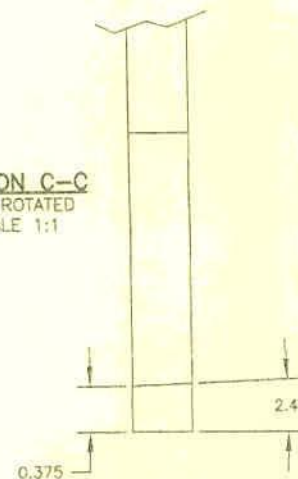


D3560-3 ARM (SHOWN), D3560-4 ARM (OPPOSITE)

- 1) MATERIAL: 6061-T6 ALUMINUM, 0.500 THICK
(QQ-A-200/8 OR QQ-A-250/11, REF DART SPEC. M6061T6B0.500)
- 2) FINISH: NONE
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP CORNERS 0.005 TO 0.015



SECTION C-C VIEW ROTATED SCALE 1:1



RELEASED

$\phi 1.000$ THRU
(TYP 4 PLACES)

$\phi 0.900$ THRU
(1 PLACE)

R2.00

R2.00

$\phi 0.196$ (DRILL #9 REF)
C'SINK $\phi 0.385 \times 1.00$

19.7

50.0

RD.30

R1.00

17.9

$\phi 0.507^{+0.000}_{-0.000}$

R4.00

41.9

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DESIGN	q	DRAWN BY	q	DART	DART AEROSPACE LTD. WIDNESLEY, OXFORD, OX4 9DQ
CHECKED	#	APPROVED	#	DRAWING NO.	REV. B
				D3560	SHEET 3 OF 3
DATE	07.01.15	TITLE	ARM WELDMENT	SCALE	1:2

NO 32645

WORK OFF

UNCLASSIFIED

DATE 07.01.15

BY 1000

REASON FOR

CLASSIFICATION

CHANGE

NO 32645

DATE 07.01.15

BY 1000

REASON FOR

CLASSIFICATION

CHANGE

NO 32645

DATE 07.01.15

BY 1000

REASON FOR

CLASSIFICATION

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REASON FOR

CLASSIFICATION

CHANGE

NO 32645

DATE 07.01.15

BY 1000

DART AEROSPACE LTD		Work Order: 320018
Description: Crosstube Assembly AT21		Part Number: 3560 2
Inspection Dwg: 23560	Rev: B	Page: 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

☒ First Article ☐ Prototype

	Inspection Sheet Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
SIDE A	1.73	±0.3	1.73	✓			
	2.50	±0.02	2.50	✓			
	2.50	±0.02	2.50	✓			
	1.85	±0.02	1.85	✓			
	2.50	±0.02	2.50	✓			
	2.75	±0.02	2.75	✓			
	2.10	±0.02	2.10	✓			
	12.65	±0.02	12.65	✓			
	1.73	±0.3	1.73	✓			
	4.48	±0.02	4.48	✓			
	2.63	±0.02	2.63	✓			
	1.85	±0.02	1.85	✓			
	2.32	±0.02	2.32	✓			
	5.00	±0.02	5.00	✓			
	5.00	±0.02	5.00	✓			
SIDE B	3.19	±0.02	3.19	✓			
	3.85	±0.02	3.85	✓			
	1.00	±0.02	1.00	✓			
	2.00	±0.02	2.00	✓			
	1.00	±0.02	1.00	✓			
	3.75	±0.02	3.75	✓			
	12.30	±0.02	12.30	✓			
	8.50	±0.02	8.50	✓			

Measured by: <u>36/1</u>	Audited by: <u>21</u>	Prototype Approval: <u>42</u> N/A
Date: <u>07/06/01</u>	Date: <u>07/06/01</u>	Date: <u>07/06/01</u> N/A
Rev A	Date	Change
		New Issue
Revised by	Approved	
KJ/JLM		

Chris Provencal

From: David Shepherd [dshepherd@dartaero.com]
Sent: June 5, 2007 5:18 PM
To: 'Chris Provencal'
Subject: RE: D3562-041/-042

As we have discussed previously, this is acceptable as long as the Magnabond doesn't break down.

David

From: Chris Provencal [mailto:cprovencal@dartaero.com]
Sent: Tuesday, June 05, 2007 11:00 AM
To: David Shepherd (David Shepherd)
Subject: D3562-041/-042

David,

For the D3562-041/-042 step weldment, as discussed. They want to switch from Sikaflex to Magnabond, and powder coat after final assembly.

As part of this change, the D3560-XX arms won't be powder coated, and the D2808 Bushing won't be assembled until after final assembly of the step weldment.

Since this is the first time trying this, we will ensure that the steps are checked after powdercoating in case the Magnabond doesn't do anything unexpected (eg. bubbling). If we see anything suspect, we will assemble them the old way.

Is this acceptable.

-Chris

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.472 / Virus Database: 269.8.9/834 - Release Date: 6/5/2007 2:38 PM

No virus found in this outgoing message.
Checked by AVG Free Edition.
Version: 7.5.472 / Virus Database: 269.8.9/834 - Release Date: 6/5/2007 2:38 PM

